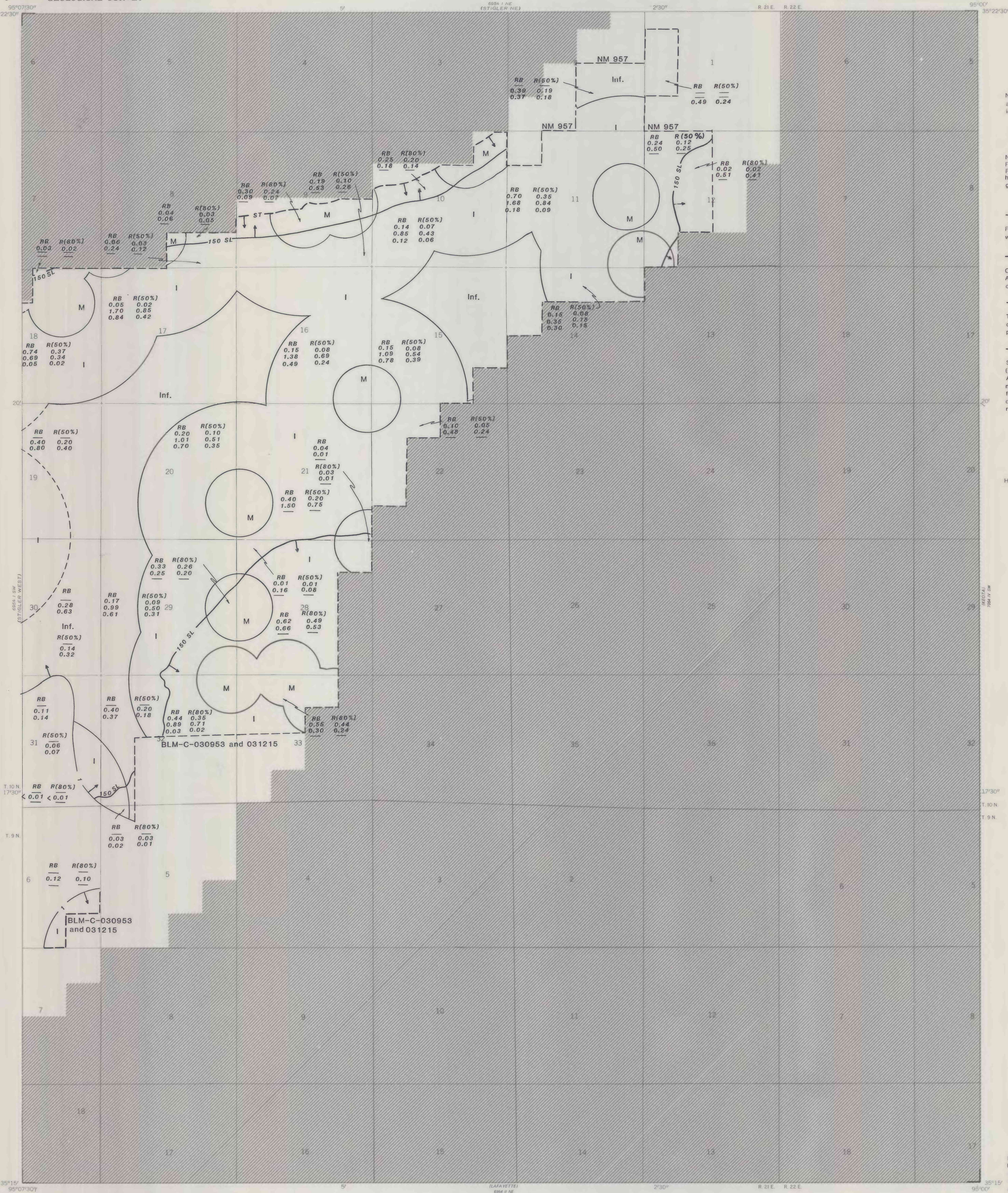


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STIGLER EAST QUADRANGLE
OKLAHOMA
7.5 MINUTE SERIES (TOPOGRAPHIC)



EXPLANATION

NOTE: The explanation has been compiled to depict all possible combinations of data and does not intentionally represent any particular data points.

NON-FEDERAL COAL LAND - Land for which the Federal Government does not own the coal rights. For all other land area, the Federal Government holds title to the coal minerals rights, without regard to surface ownership.

FEDERAL COAL LEASE BOUNDARY--Lease number within boundary.

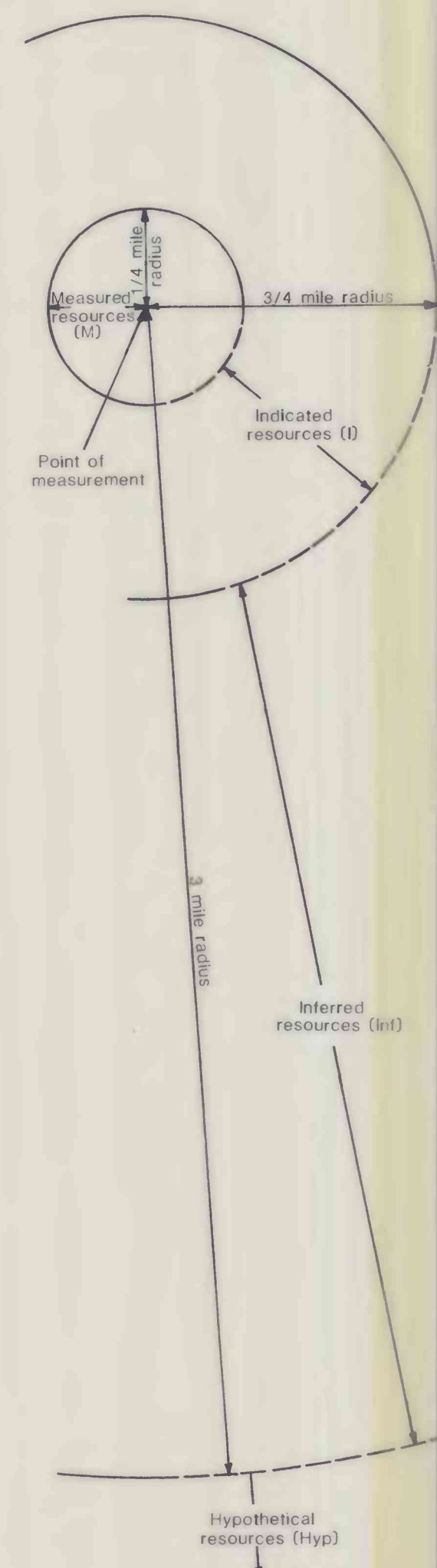
COAL ISOPACH--Showing thickness of coal, in feet. Arrow points towards area where coal bed is 1 foot or more thick.

TRACE OF COAL BED OUTCROP--Showing symbol of name of coal bed (as shown on Plate 1). Arrow points toward coalbearing area.

STRIPPING-LIMIT LINE--Boundary for surface mining (in this quadrangle, the 150-foot overburden isopach). Arrow points toward the area suitable for surface mining where the recovery factor is 80% and away from the area suitable for subsurface mining (down dip to the 3,000-foot overburden isopach) where the recovery factor is 50%.

Surface	Subsurface	In-situ	
RB R(80%)	RB R(50%)	RB (IS)	
0.01 0.01	0.78 0.39	0.01 0.01	(Measured)
0.61 0.30	1.51 0.81	0.61 0.30	(Indicated)
0.00 0.00	0.45 0.25	0.00 0.00	(Inferred)
Hyp.0.00			(Hypothetical)

IDENTIFIED AND HYPOTHETICAL COAL RESOURCES--Showing totals for Reserve Base (RB), Reserves (R), and Hypothetical (Hyp) resources in millions of short tons, for each section or part of section of non-leased Federal coal land, both within and beyond the stripping-limit line. Reserve (R) tonnage is calculated by multiplying the Reserve Base (RB) tonnage by the appropriate recovery factor. Reserve tonnages are not calculated from in-situ Reserve Base tonnages. Dash indicates no resource in that category. 0.00 indicates that there are resources less than 10,000 short tons, in that category.



BOUNDARY LINES--Enclosing areas of measured (M), indicated (I), inferred (Inf) parts of identified coal resources. Dashed where projected from adjacent quadrangles. Hypothetical (Hyp) coal resources are located beyond the inferred part of identified coal resources (more than 3 miles from a measurement point).

To convert short tons to metric tons, multiply short tons by 0.9072.

To convert feet to meters, multiply feet by 0.3048.

To convert miles to kilometers, multiply miles by 1.6093.

This map intended for land-use planning purposes only.

COMPILED IN 1980

PLATE 7

AREAL DISTRIBUTION AND
IDENTIFIED RESOURCES MAP
OF THE STIGLER COAL BED

FEDERAL COAL RESOURCE OCCURRENCE MAP OF THE STIGLER EAST 7.5-MINUTE QUADRANGLE, HASKELL AND MUSKOGEE COUNTIES, OKLAHOMA

BY GEOLOGICAL SERVICES OF TULSA, INC., AND B. T. BRADY, USGS